

WiFi/BT Antenna Data Sheet

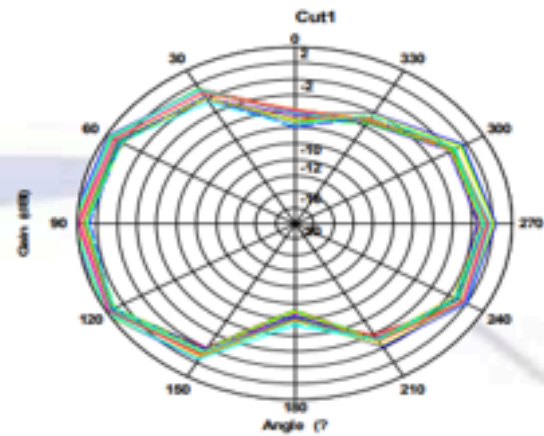
Company: Espressif Systems

Type/Model #: ESP ANT B (PCB antenna)

Maximum Gains:

Test Item	Test State	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Note
Gain	Free Space	2400	72.68	3.76	Vertical 30°
		2412	73.79	2.39	
		2417	77.04	2.97	
		2422	79.83	2.80	
		2427	81.19	2.89	
		2432	80.54	3.04	
		2437	76.86	2.86	
		2442	76.17	2.99	
		2447	73.99	2.96	
		2452	72.00	2.80	
		2457	70.71	2.72	
		2462	71.31	2.94	
		2467	71.32	3.12	
		2472	72.03	3.28	
		2477	72.71	3.24	
		2482	75.42	3.42	
		2490	85.32	3.57	
		2500	86.78	3.28	
Note: comment variation is +/- 0.02dBi					

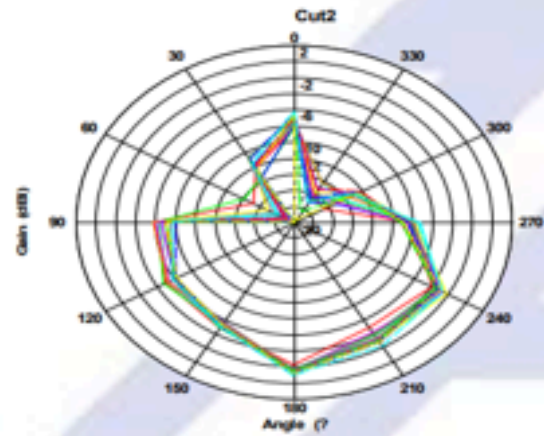
Antenna waveforms



2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz

Max: 2
Min: -20
Scale: 20div

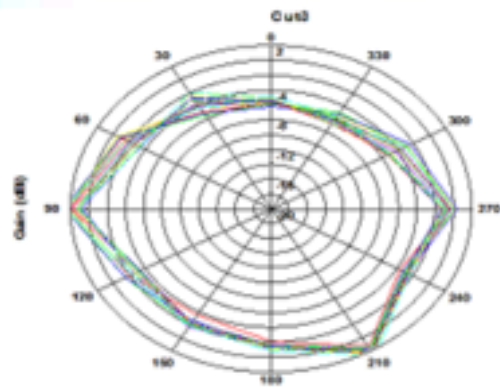
Horizontal X-Y



2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz

Max: 2
Min: -20
Scale: 20div

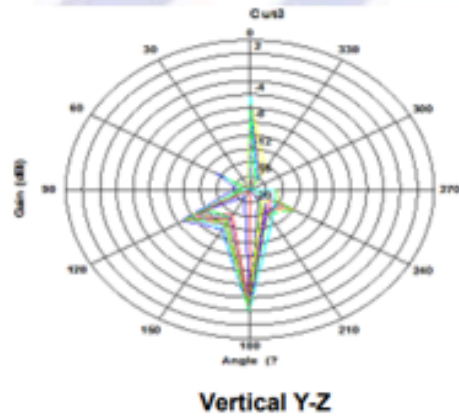
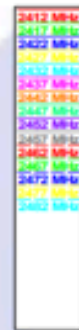
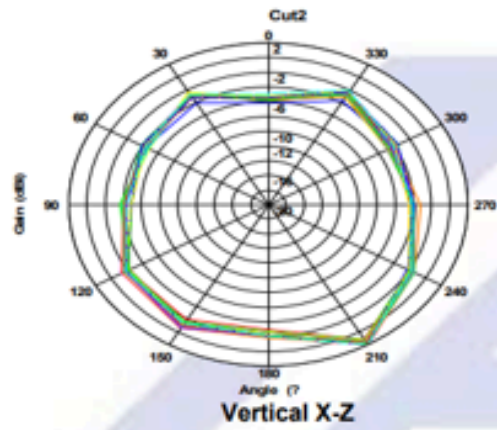
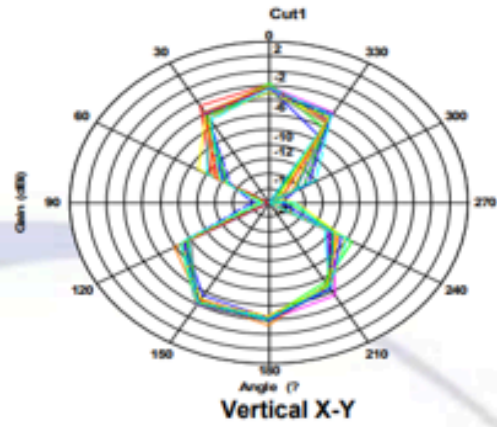
Horizontal X-Z



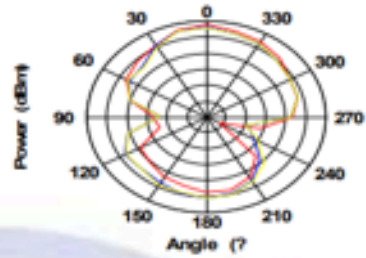
2412 MHz
2417 MHz
2422 MHz
2427 MHz
2432 MHz
2437 MHz
2442 MHz
2447 MHz
2452 MHz
2457 MHz
2462 MHz

Max: 2
Min: -20
Scale: 20div

Horizontal Y-Z

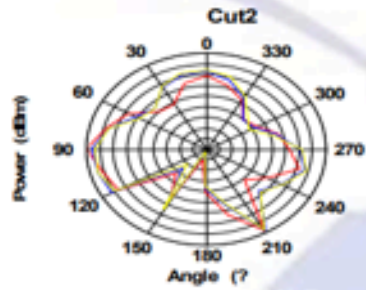


Max: 5
Min: -25
Scale: 5/div



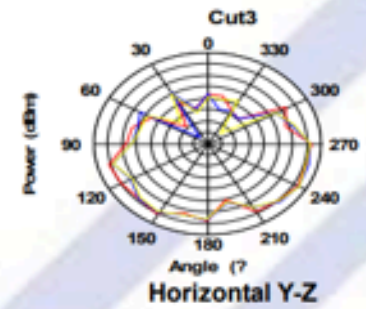
2400 MHz
2490 MHz
2500 MHz

Max: 4
Min: -14
Scale: 2/div



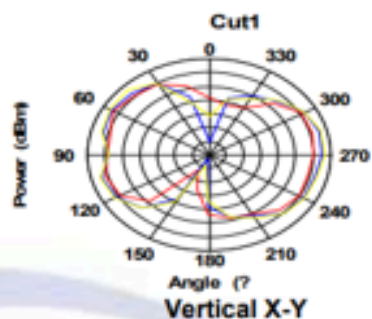
2400 MHz
2490 MHz
2500 MHz

Max: 0
Min: -40
Scale: 5/div



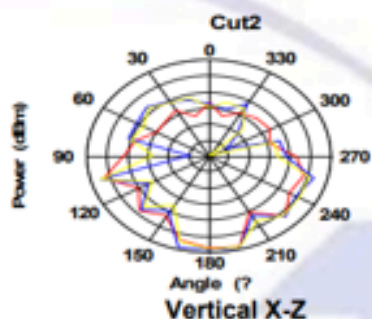
2400 MHz
2490 MHz
2500 MHz

Max: 0
Min: -35
Scale: 5/div



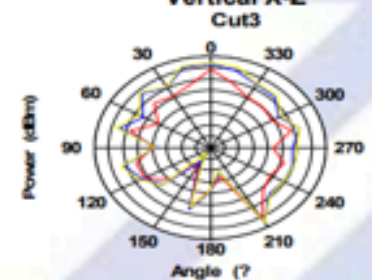
2400 MHz
2490 MHz
2500 MHz

Max: -5
Min: -35
Scale: 5/div



2400 MHz
2490 MHz
2500 MHz

Max: 2
Min: -14
Scale: 2/div



2400 MHz
2490 MHz
2500 MHz